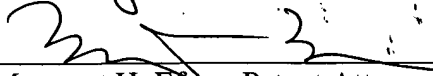


ZFW

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INFORMATION DISCLOSURE  
STATEMENT  
Patent Application  
Docket No. UF-378C1  
Serial No. 10/678,506

May 24, 2004

  
Margaret H. Efron, Patent Attorney



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1743  
Applicants : Richard Melker, Ronald Hayes, Ka-Wang Kevin Wang, Donn Dennis  
Serial No. : 10/678,506  
Filed : October 2, 2003  
Conf. No. : 1941  
For : Novel Application of Nanotechnology and Sensor Technologies for  
Ex-vitro Diagnostics

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§1.56, 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. Copies of the cited documents are enclosed.

Docket No. UF-378C1  
Serial No. 10/678,506

The applicants respectfully assert that the substantive provisions of 37 C.F.R. §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,



Margaret H. Efron  
Patent Attorney  
Registration No. 47,545  
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Gainesville, FL 32606-6669

MHE/ue

Attachments: Form PTO/SB/08  
References listed thereon



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/678,506
				Filing Date	October 2, 2003
				First Named Inventor	Richard J. Melker
				Art Unit	1743
				Examiner Name	
Sheet	1	of	6	Attorney Docket Number	UF-378C1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U1	US-3,567,029	03-02-1971	Quame	All
	U2	US-3,608,546	09-28-1971	Shinn	All
	U3	US-3,877,291	4-15-1975	Hoppesch <i>et al.</i>	All
	U4	US-3,955,926	5-11-1976	Fischer	All
	U5	US-4,202,352	05-13-1980	Osborn	All
	U6	US-4,312,228	1-26-1982	Wohltjen	All
	U7	US-4,334,540	6-15-1982	Preti <i>et al.</i>	All
	U8	US-4,361,026	11-30-1982	Muller <i>et al.</i>	All
	U9	US-4,349,626	9-14-1982	Labows <i>et al.</i>	All
	U10	US-4,399,686	8-23-1983	Kindlund <i>et al.</i>	All
	U11	US-4,534,360	8-13-1985	Williams	All
	U12	US-4,734,777	3-29-1988	Okino <i>et al.</i>	All
	U13	US-4,772,559	9-20-1998	Preti <i>et al.</i>	All

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	F1	DE	19607646 (abstract in English)	A1	Muehlenberg <i>et al.</i>	09-11-1997	All	
	F2	WO	98/57145		Quadrivium, L.L.C.	12-17-1998	All	
	F3	WO	00/79243	A1	Cyrano Sciences, INC.	12-28-2000	All	

Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/678,506	
			Filing Date	October 2, 2003	
			First Named Inventor	Richard J. Melker	
			Art Unit	1743	
			Examiner Name		
Sheet	2	of	6	Attorney Docket Number	UF-378C1

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		Number - Kind Code <sup>2</sup> (if known)			
	U14	US-4,895,017	1-23-1990	Pyke <i>et al.</i>	All
	U15	US-4,938,928	7-03-1990	Koda <i>et al.</i>	All
	U16	US-4,992,244	2-12-1991	Grate	All
	U17	US-5,034,192	7-23-1991	Wrighton <i>et al.</i>	All
	U18	US-5,042,501	8-27-1991	Kenny <i>et al.</i>	All
	U19	US-5,060,506	10-29-1991	Douglas	All
	U20	US-5,071,770	12-10-1991	Kolesar, Jr.	All
	U21	US-5,081,871	1-21-1992	Glaser	All
	U22	US-5,137,692	8-11-1992	Fritz	All
	U23	US-5,145,645	9-08-1992	Zakin <i>et al.</i>	All
	U24	US-5,179,027	01-12-1993	Fisher	All
	U25	US-5,252,292	10-12-1993	Hirata <i>et al.</i>	All
	U26	US-5,325,704	7-05-1994	Mariani <i>et al.</i>	All
	U27	US-5,351,522	10-04-1994	Lura	All
	U28	US-5,482,601	1-09-1996	Ohshima <i>et al.</i>	All
	U29	US-5,528,924	6-25-1996	Wajid <i>et al.</i>	All
	U30	US-5,547,878	8-20-1996	Kell	All
	U31	US-5,605,612	2-25-1997	Park <i>et al.</i>	All
	U32	US-5,645,072	7-08-1997	Thrall <i>et al.</i>	All
	U33	US-5,756,879	5-26-1998	Yamagishi <i>et al.</i>	All

Examiner Signature		Date Considered	
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			Application Number	10/678,506	
			Filing Date	October 2, 2003	
			First Named Inventor	Richard J. Melker	
			Art Unit	1743	
			Examiner Name		
Sheet	3	of	6	Attorney Docket Number	UF-378C1

U.S. PATENT DOCUMENTS					
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		Number - Kind Code <sup>2</sup> (if known)			
	U34	US-5,783,154	7-21-1998	Althainz <i>et al.</i>	All
	U35	US 5,783,449	7-21-1998	Kuznetsov	All
	U36	US-5,830,412	11-03-1998	Kimura <i>et al.</i>	All
	U37	US-5,861,254	1-19-1999	Schneider <i>et al.</i>	All
	U38	US-5,900,552	5-04-1999	Chu <i>et al.</i>	All
	U39	US-5,918,257	6-29-1999	Mifsud <i>et al.</i>	All
	U40	US-5,945,069	8-31-1999	Buehler	All
	U41	US-5,950,630	9-14-1999	Portwood <i>et al.</i>	All
	U42	US-5,954,685	9-21-1999	Tierney	All
	U43	US-5,971,937	10-26-1999	Ekstrom	All
	U44	US-5,996,586	12-07-1999	Phillips	All
	U45	US-6,010,459	1-04-2000	Silkoff <i>et al.</i>	All
	U46	US-6,057,162	5-02-2000	Rounbehler <i>et al.</i>	All
	U47	US-6,063,243	5-16-2000	Zettl <i>et al.</i>	All
	U48	US-6,067,167	5-23-2000	Atkinson <i>et al.</i>	All
	U49	US-6,085,576	7-11-2000	Sunshine <i>et al.</i>	All
	U50	US-6,136,801	10-24-2000	Kell	All
	U51	US-6,153,147	11-28-2000	Craig	All
	U52	US-6,190,858 B1	2-20-2001	Persaud <i>et al.</i>	All
	U53	US-6,203,814 B1	3-20-2001	Fisher <i>et al.</i>	All
	U54	US-6,221,026 B1	4-24-2001	Phillips	All

Examiner Signature		Date Considered	
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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**Complete if Known**

Application Number	10/678,506
Filing Date	October 2, 2003
First Named Inventor	Richard J. Melker
Art Unit	1743
Examiner Name	
Attorney Docket Number	UF-378C1

Sheet	4	of	6
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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U55	US-6,244,096	6-12-2001	Lewis <i>et al.</i>	All
	U56	US-6,248,078 B1	6-19-2001	Risby <i>et al.</i>	All
	U57	US-6,261,783 B1	7-17-2001	Jayasena <i>et al.</i>	All
	U58	US-6,303,316 B1	10-16-2001	Kiel <i>et al.</i>	All
	U59	US-6,305,212	10-23-2001	Drzewiecki	All
	U60	US-6,312,390 B1	11-06-2001	Phillips	All
	U61	US-6,319,724	11-20-2001	Lewis <i>et al.</i>	All
	U62	US-6,363,772 B1	4-02-2002	Berry	All
	U63	US-6,387,329 B1	5-14-2002	Lewis <i>et al.</i>	All
	U64	US-6,399,302 B1	6-04-2002	Lannigan <i>et al.</i>	All
	U65	US-6,479,019 B1	11-12-2002	Goldstein <i>et al.</i>	All
	U66	US-6,495,824	12-17-2002	Atkinson	All
	U67	US 2001/0046674 A1	11-29-2001	Ellington	All
	U68	US 2002/0007249 A1	1-17-2002	Cranley <i>et al.</i>	All
	U69	US 2002/0068295	6-06-2002	Madou <i>et al.</i>	All
	U70	US 2002/0034757	3-21-2002	Cubicciotti	All

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				Application Number	10/678,506
				Filing Date	October 2, 2003
				First Named Inventor	Richard J. Melker
				Group Art Unit	1743
				Examiner Name	
Sheet	5	of	6	Attorney Docket Number	UF-378C1

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	R1	BALLANTINE, DS. <i>et al.</i> "Surface Acoustic Wave Devices for Chemical Analysis," <i>Anal. Chem.</i> (1989), Volume 61, number 11, pages 704A-712A.		
	R2	BRODY, EN. <i>et al.</i> "Aptamers as Therapeutic and Diagnostic Agents," <i>Reviews in Molecular Biotechnology</i> (2000), Volume 74, pages 5-13.		
	R3	BRODY <i>et al.</i> "The use of Aptamers in Large Arrays for Molecular Diagnostics," <i>Molecular Diagnosis</i> (1999), Volume 4, number 4, pages 3811-388.		
	R4	CHANDIOK, S. <i>et al.</i> "Screening for Bacterial Vaginosis: A Novel Application of Artificial Nose Technology," <i>Journal of Clinical Pathology</i> (1997), Volume 50, pages 790-791.		
	R5	FANG, M. <i>et al.</i> "Detection of Organic Chemicals by SAW Sensor Array," <i>Sensors and Actuators</i> (1999), Volume B56, pages 155-157.		
	R6	FISCHER <i>et al.</i> "A man-portable chemical sniffer utilizing Novel Fluorescent polymers for detection of ultra-trace concentrations of explosives emanating from landmines," <i>Nomadics Inc.</i> (2000), PAGES 1-10.		
	R7	GANGA-ZANDZOU, P.S. <i>et al.</i> "A 13C-urea breath test in children with Helicobacter pylori infection: validity of the use of a mask to collect exhaled breath sample," <i>Acta. Paediatr.</i> (2001), Volume 90, pages 232-233.		
	R8	GRATE, JW <i>et al.</i> "Determination of Partition Coefficients from Surface Acoustic Wave Vapor Sensor Responses and Correlation with Gas-Liquid Chromatographic Partition Coefficients," <i>Anal. Chem.</i> (1998), Volume 60, pages 869-875.		
	R9	GROVES, W. <i>et al.</i> "Analyzing organic vapors in exhaled breath using a surface acoustic wave sensor array with preconcentration: Selection and characterization of the preconcentrator absorbent," <i>Analytica Chimica Acta</i> (1998), Volume 371, pages 131-143.		
	R10	HANSON, C.W. <i>et al.</i> "The use of a novel 'Electronic Nose' to diagnose the presence of intrapulmonary infection," <i>Anesthesiology</i> (1997), Volume 87, number 3A, abstract A269.		
	R11	LIEBICH <i>et al.</i> "Volatile Substances in Blood Serum: a Profile Analysis and Quantitative Determination," <i>Journal of Chromatography</i> (1977), Volume 142, pages 505-516.		

Examiner Signature		Date Considered	
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Examiner Name					
Sheet	6	of	6	Attorney Docket Number	UF-378C1

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	R12	MUELLER <i>et al.</i> "Experience in mass spectrometric identification in acute poisoning," <i>Beitr. Diagn. Ther. Akuter. Intox., Vortr. Symp.</i> 4 <sup>th</sup> (1982), pages 126-134, ABSTRACT ONLY.	
	R13	PARRY, A.D. <i>et al.</i> "Leg Ulcer Odour Detection Identifies $\beta$ -haemolytic Streptococcal Infection," <i>Journal of Wound Care</i> (1995), Volume 4, number 9, pages 404-406.	
	R14	PAVIOU and TURNER. "Sniffing out the truth: Clinical Diagnosis Using the Electronic Nose," <i>Clin. Chem. Lab. Med.</i> (2000), Volume 38, number 2, pages 99-112.	
	R15	PERRI, F. "Diagnosis of <i>Helicobacter pylori</i> infection: which is best? The urea breath test," <i>Dig. Liver. Dis.</i> (2000), Volume 32, Supp. 3, pages S196-198.	
	R16	ROGERS <i>et al.</i> "Fiber-optic biosensors based on total internal-reflection fluorescence," <i>American Chemical Society</i> (1992), Ch. 13, pages 165-173.	
	R17	STOJANOVIC <i>et al.</i> "Aptamer -based Folding Fluorescent Sensor for Cocaine," <i>J. Am. Chem. Soc.</i> (2001), Volume 123, pages 4928-4931.	
	R18	TRACQUI, A. <i>et al.</i> "Systematic Toxicological Analysis Using HPLC/DAD," <i>Journal of Forensic Sciences</i> (1995), Volume 40, Number 2, pages 254-262.	
	R19	WOHLTJEN, H. <i>et al.</i> "Vapor Detection with Surface Acoustic Wave Microsensors," <i>Chemical Sensors and Microinstrumentation</i> (1989), pages 157-175.	
	R20		
	R21		
	R22		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. his collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.